

Harvey County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/26/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 25 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Harvey County economy.¹

These 25 sectors have a total direct output of approximately **\$1.15 billion** and support **3,085 jobs** in Harvey County. Running the model for all 25 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Harvey County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	3084.8	14.24%	\$261,678,467	17.37%	\$1,147,200,394
Indirect Effect	569.3	2.63%	\$36,214,387	2.40%	\$75,091,467
Induced Effect	919.8	4.24%	\$53,373,651	3.54%	\$104,631,727
Total Effect	4573.9	21.11%	\$351,266,505	23.31%	\$1,326,923,588

As shown in the above table, agriculture, food, and food processing sectors support **4,574 jobs**, or **21.11%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 25 agriculture, food, and food processing sectors is approximately **\$351.3 million**, or **23.31%**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelptest.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the lawn and garden equipment manufacturing sector is the top employer with **1,056 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Harvey County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Lawn and garden equipment manufacturing	1,056.2	\$494,844,817
Farm machinery and equipment manufacturing	803.6	\$340,159,606
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	420.8	\$46,865,640
Grain farming	179.8	\$62,868,007
Animal, except poultry, slaughtering	143.3	\$97,416,866
Landscape and horticultural services	115.6	\$4,570,268
Real estate	87.9	\$8,777,912
Hospitals	87.1	\$13,752,474
Veterinary services	77.1	\$7,376,551
Limited-service restaurants	72.8	\$5,487,583

The lawn and garden equipment manufacturing sector directly contributes approximately **\$494.8 million** to the Harvey County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Lawn and garden equipment manufacturing	1,056.2	\$494,844,817
Farm machinery and equipment manufacturing	803.6	\$340,159,606
Animal, except poultry, slaughtering	143.3	\$97,416,866
Grain farming	179.8	\$62,868,007
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	420.8	\$46,865,640
Oilseed farming	38.3	\$38,282,425
Owner-occupied dwellings	0.0	\$19,059,492
Fertilizer mixing	32.2	\$17,459,299
All other industrial machinery manufacturing	57.2	\$15,512,381
Hospitals	87.1	\$13,752,474

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Harvey County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	38.3	\$38,282,424.93
Grain farming	179.8	\$62,868,007.66
Vegetable and melon farming	3.0	\$600,061.77
Fruit farming	2.0	\$175,509.17
Tree nut farming	0.3	\$46,463.88
Greenhouse, nursery, and floriculture production	4.0	\$582,463.15
Cotton farming	12.7	\$2,995,068.79
All other crop farming	17.5	\$1,300,160.65
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	420.8	\$46,865,638.73
Dairy cattle and milk production	10.2	\$4,142,676.35
Poultry and egg production	1.7	\$1,354,512.69
Animal production, except cattle and poultry and eggs	43.1	\$5,007,240.30
Commercial logging	5.4	\$143,373.50
Commercial hunting and trapping	5.2	\$102,791.15
Support activities for agriculture and forestry	26.7	\$1,150,361.78
Animal, except poultry, slaughtering	143.3	\$97,416,870.12
Bread and bakery product, except frozen, manufacturing	23.4	\$2,743,572.71
Frozen cakes and other pastries manufacturing	1.4	\$210,507.75
Wineries	4.1	\$1,289,768.93
Fertilizer mixing	32.2	\$17,459,299.09
Farm machinery and equipment manufacturing	803.6	\$340,159,606.93
Lawn and garden equipment manufacturing	1056.2	\$494,844,818.12
All other industrial machinery manufacturing	57.2	\$15,512,380.60
Veterinary services	77.1	\$7,376,551.15
Landscape and horticultural services	115.6	\$4,570,268.15

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Harvey County, the retail sector was omitted.